

Abstract of the Disclosure

The subject invention provides methods for controlling weeds, plant pests, or plant pathogens comprising the application of a bioactive herbage (plant material) composition to soil as a soil amendment or as top dressing for potted plants. In certain embodiments, the method of controlling weeds, plant pests, or plant pathogens comprises the application of a bioactive herbage (plant material) composition to soil as a soil amendment or as top dressing for potted plants in amounts sufficient to control weeds, plant pests, or plant pathogens, wherein said bioactive herbage is obtained from: (a) *Monarda spp.*; (b) *Chamaemelum spp.*; (c) *Matricaria spp.*; (d) *Chenopodium spp.*; or (e) various combinations of thereof. Herbage can be dried or wet and other sources of bioactive herbage are also suitable for use in the subject invention are provided.